

# Gunnery Department MLRS Division

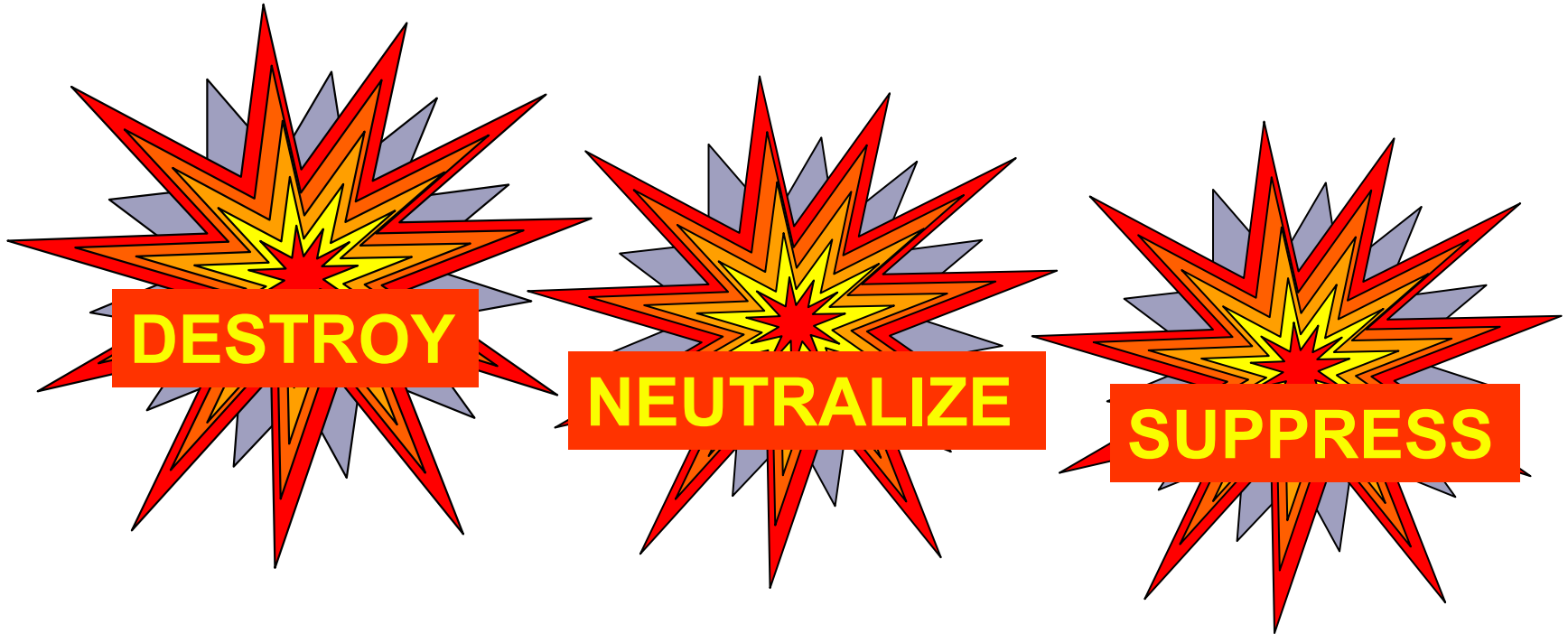
*“Standards Start Here”*



# ***Field Artillery Captains Career Course***

## ***MLRS COMBAT SERVICE SUPPORT***

# ***The Mission of the Field Artillery is to...***



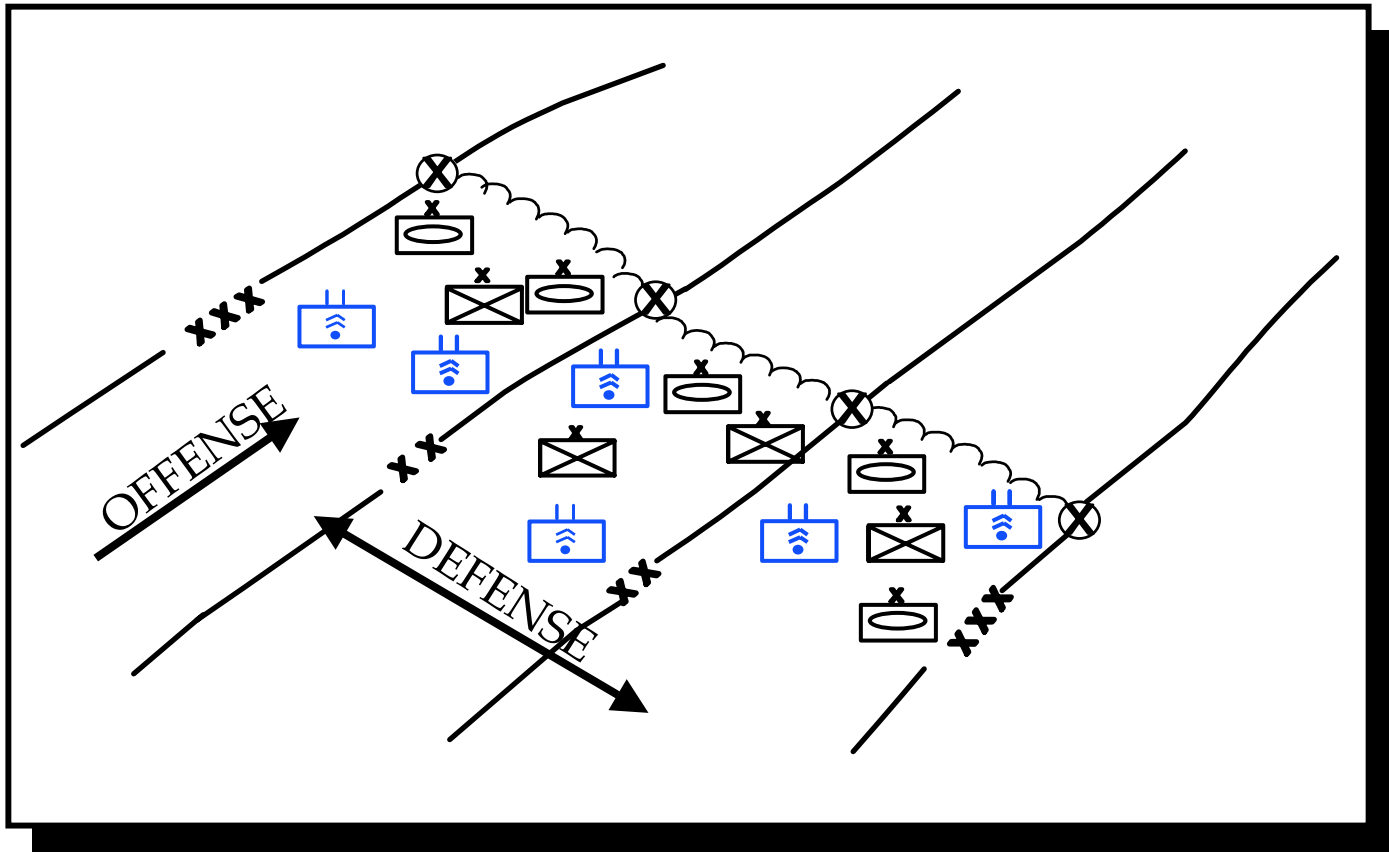
the enemy by cannon, **ROCKET** and **MISSILE** fire  
and to help integrate all fire support assets into  
combined arms operations.

# ***Learning Activities***

- Identify CSS Organizations from Corps to Battery
- Coordinate MLRS Battery Ammunition Supply
- Manage Unit Maintenance Operations
- Direct Refueling Operations and Other Areas of Support

# *CSS Organizations*

# *Employment Concept*

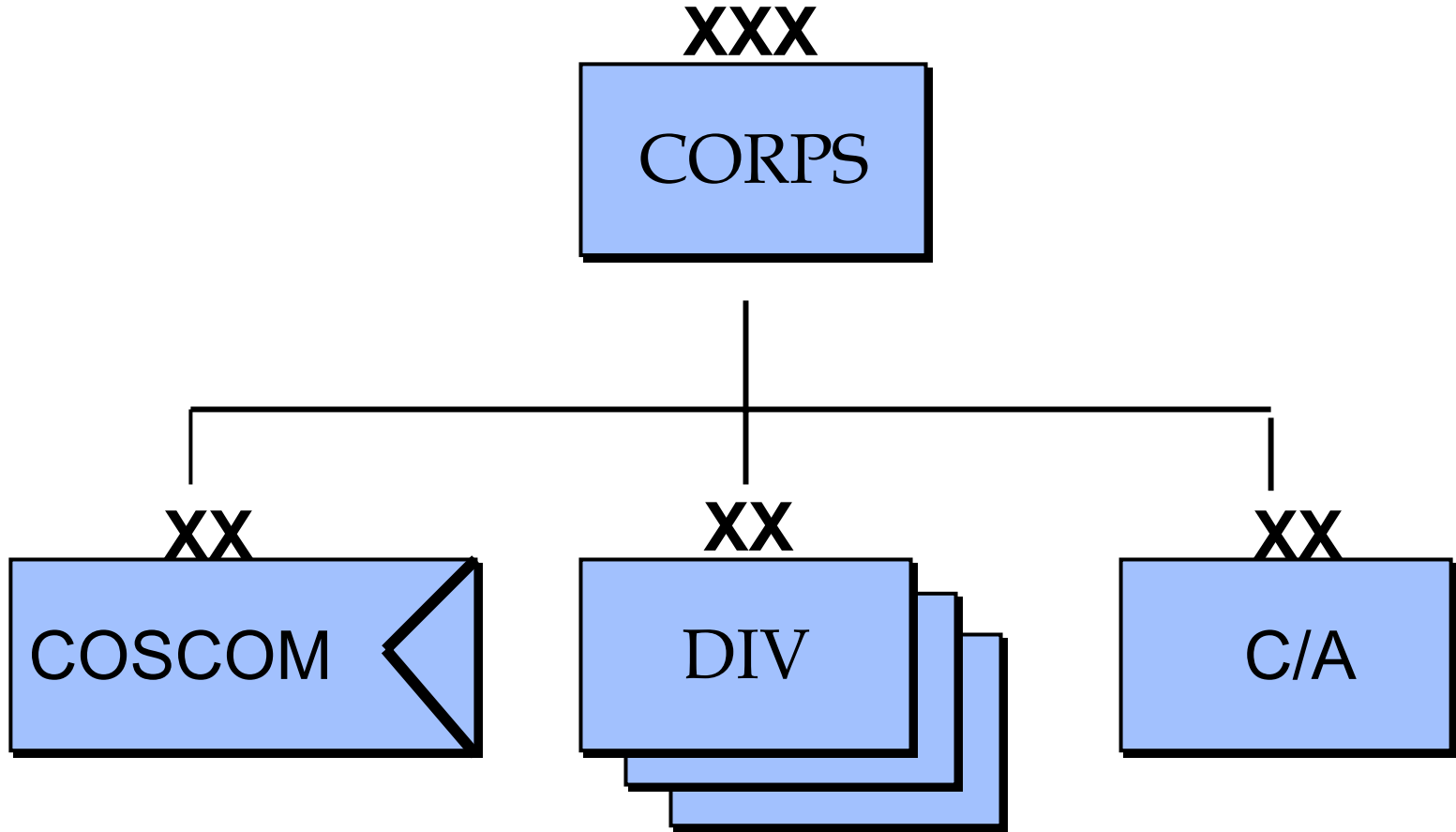


MLRS units are positioned as close to the FLOT as possible, and in some cases beyond the FLOT.

# ***Combat Service Support Operations***

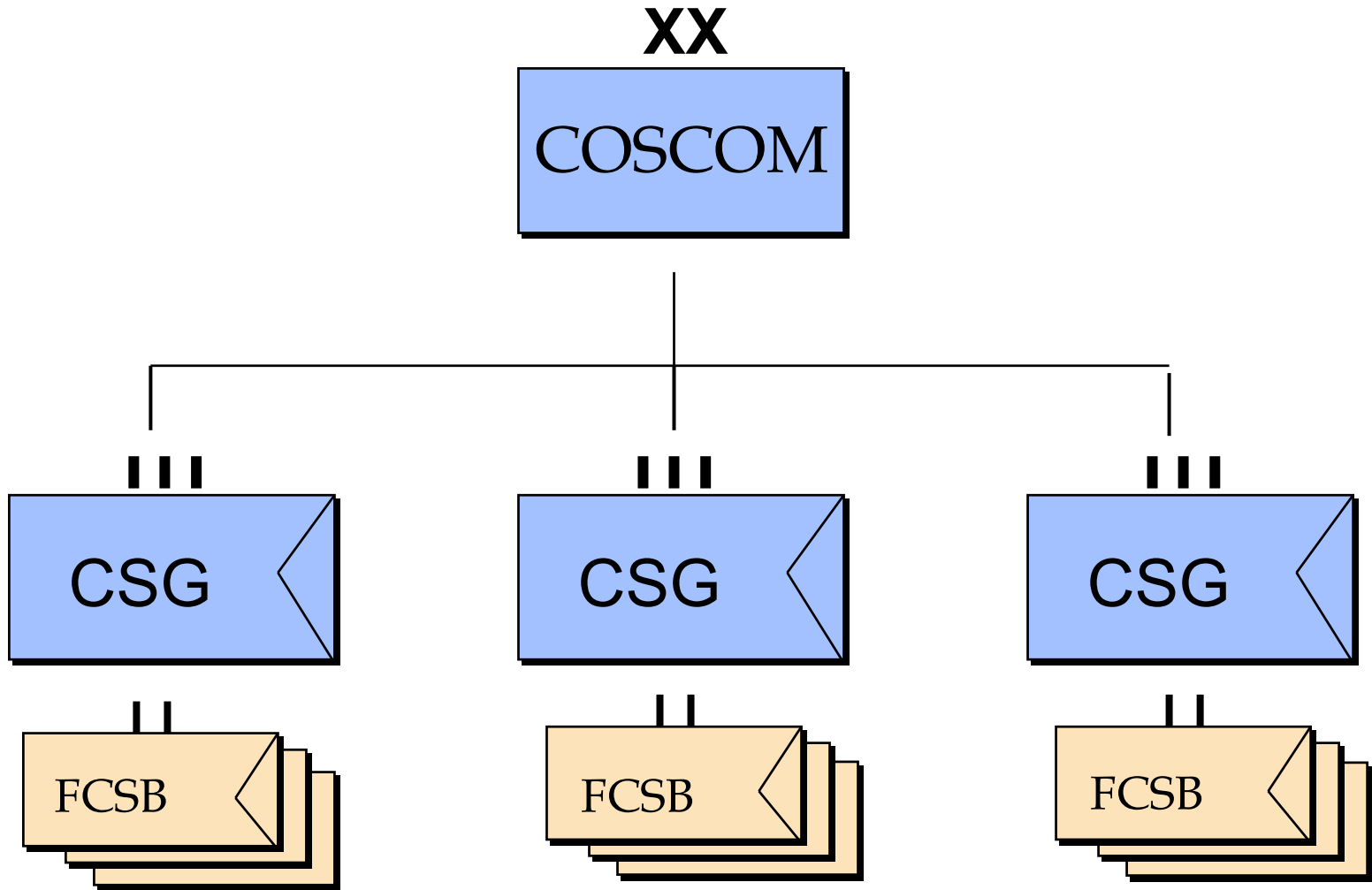
- MAN, ARM, FIX, FUEL, MOVE, and SUSTAIN forces in combat.
  - Corps Support Command (COSCOM)
  - Division Support Command (DISCOM)

# ***Corps Organization***

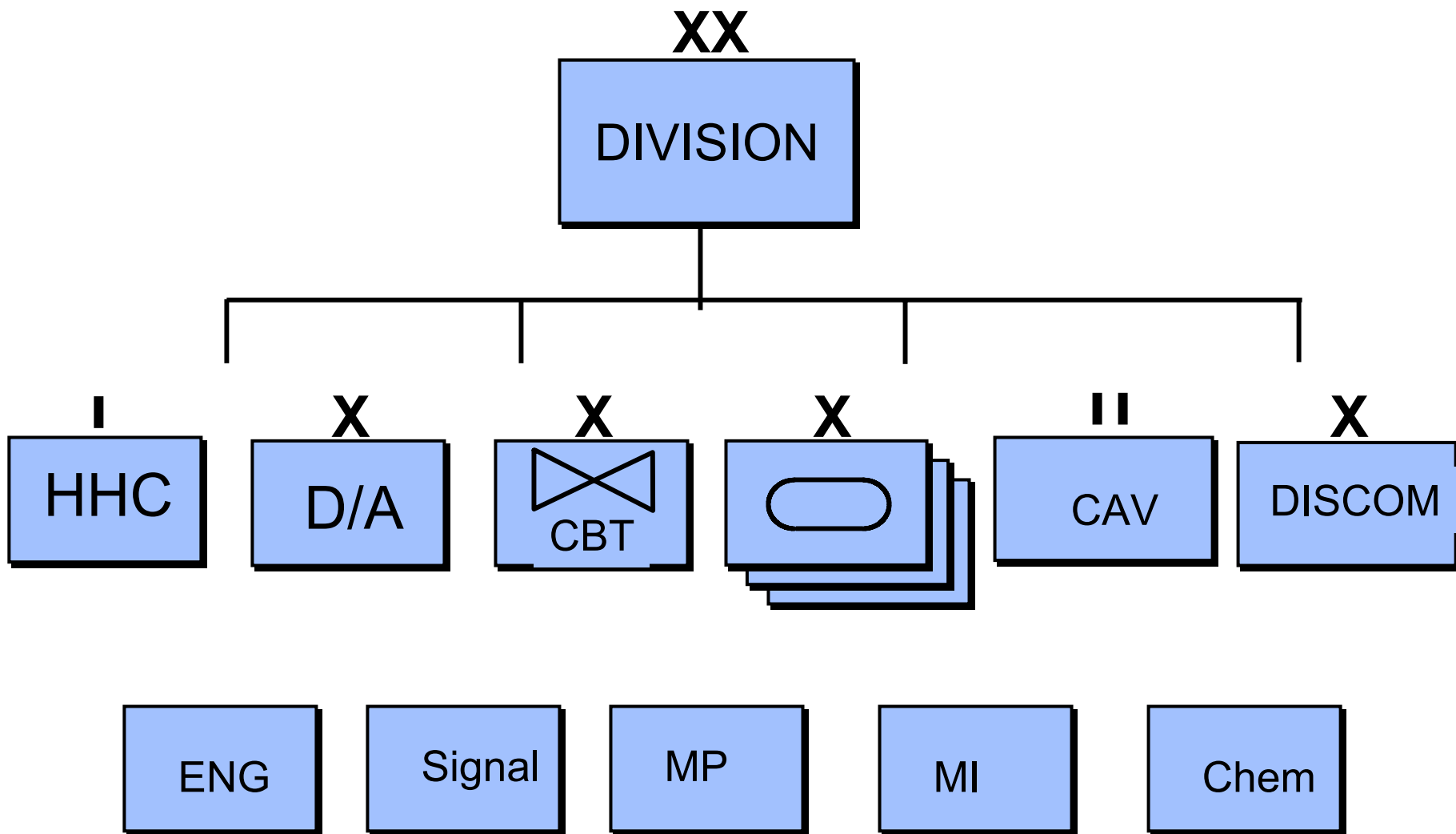




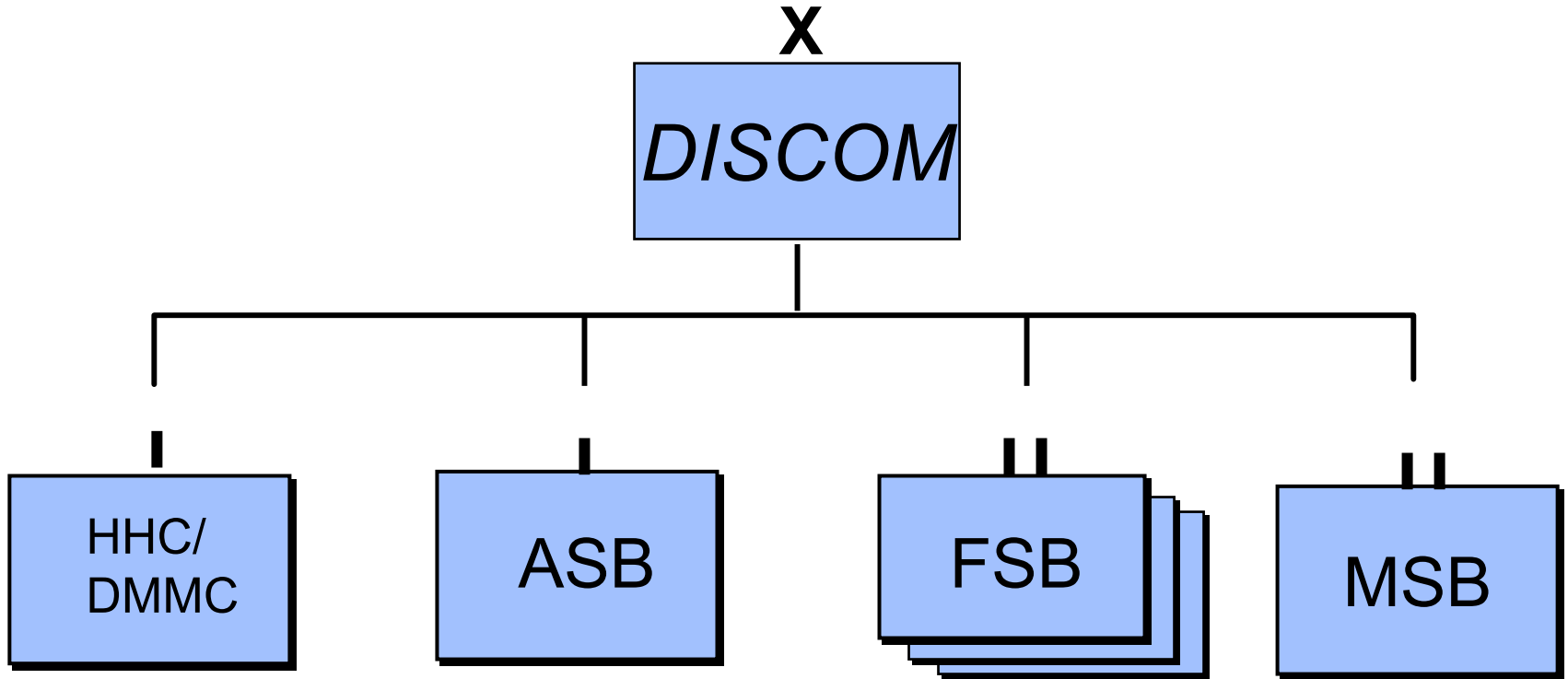
# ***COSCOM Organization***



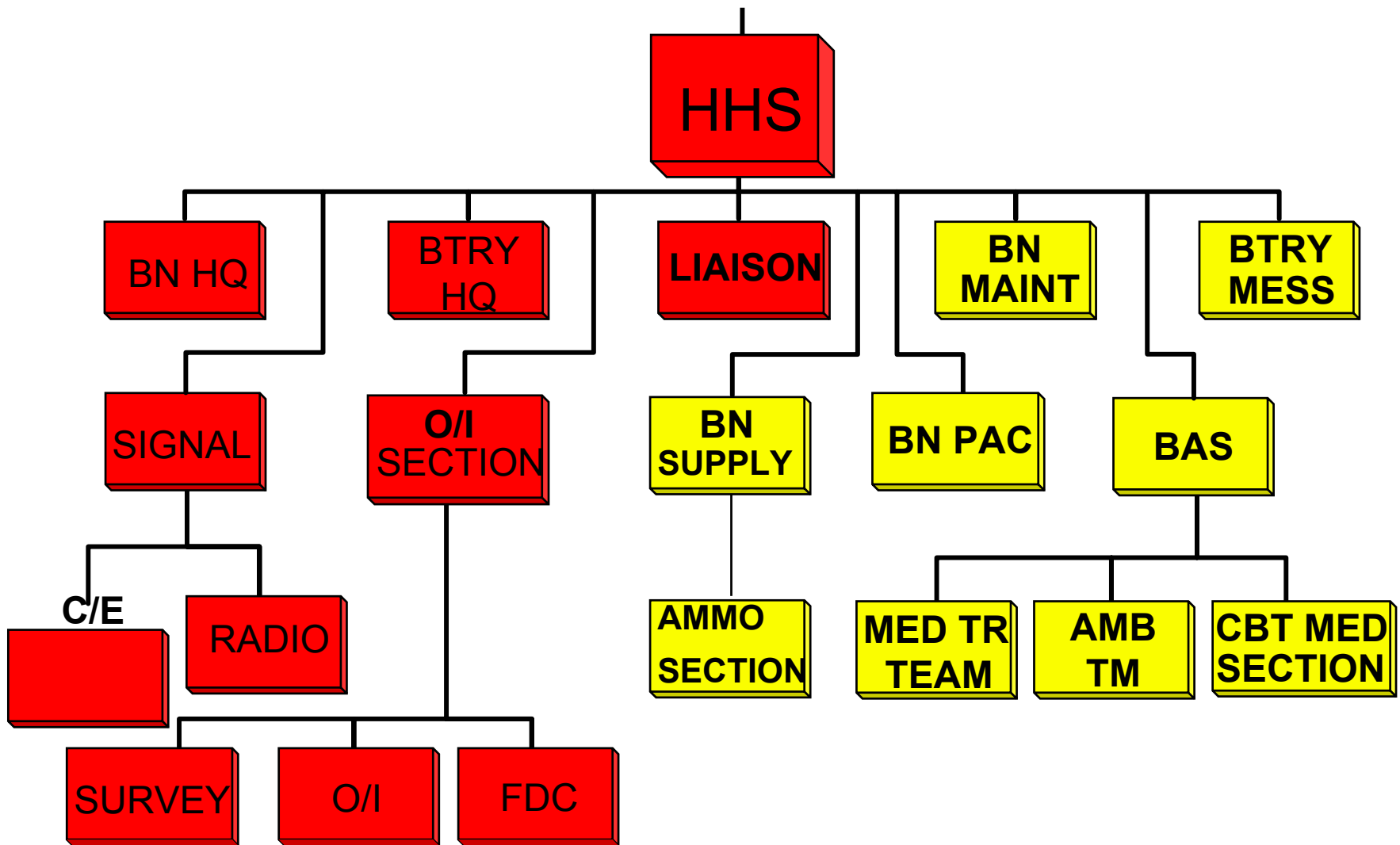
# ***Division Organization***



# ***DISCOM Organization***



# *Admin Logistics Operation Center*



# ***Logistical Operational Control***

- OPTION 1 - Decentralized, BC ensures that adequate quantity of supplies exist.
- OPTION 2 - Centralized within the battalion. ALOC assumes control of all logistics operations.
- OPTION 3 - Shared control of certain logistics functions.

# ***Decentralized Control***

- Advantages
  - Support autonomous operations.
  - Provides the flexibility at battery level.
- Disadvantages
  - Increased vehicular traffic in the battery area.
  - Each firing battery works separately to fulfill the same logistical requirement.

# ***Centralized Control***

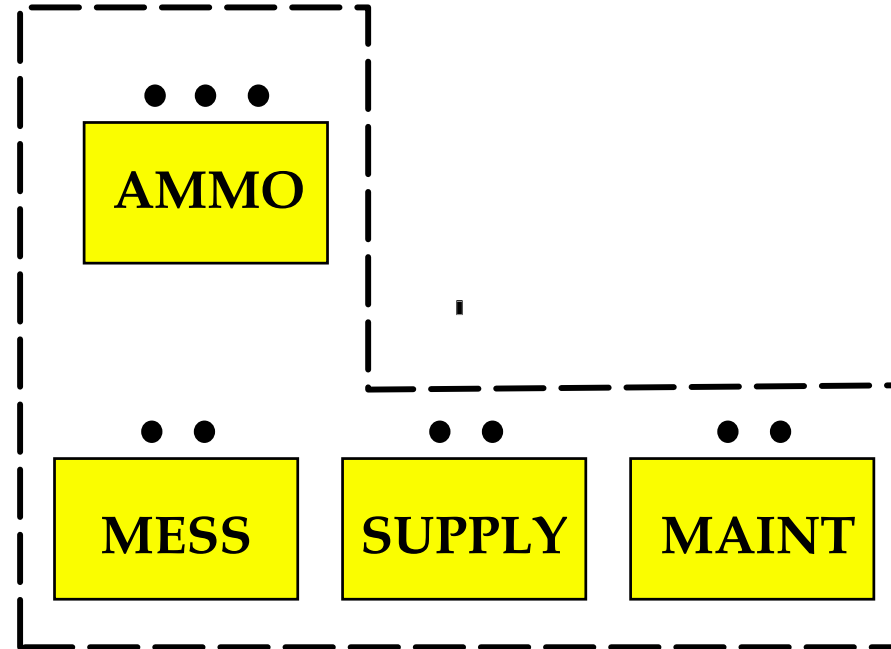
- Advantages
  - Enhances survivability by reducing signature.
  - Reduces logistics support strain from the battery.
- Disadvantages
  - Battery turn around time may increase.
  - Impairs ability to employ firing battery autonomously.

# ***Shared Control***

- Advantages
  - Reduces a logistic burden in specific areas.
- Disadvantages
  - Increases logistics C<sup>2</sup> strain on ALOC because of manpower constraints.



# ***Battery LOC Organization***



# ***Battery LOC Functions***

- Maintenance
- Ammunition Re-supply
- Mess Operations
- Re-supply POL
- Re-supply Expendables
- Personnel & Administration

# *Battery Ammunition Supply*

# ***Ammunition Planning***



# ***Ammunition Operations***

- Ammunition Basic Load (ABL)
  - Wartime initial issue
- Required Supply Rate (RSR)
  - Estimated Sustainment
- Controlled Supply Rate (CSR)
  - Actual Availability

# ***Expenditure Rates***

## Expenditure Rates:

A projection of the anticipated firing rate.

Aids all leaders in:

- Posturing launchers and munitions
- Planning ammunition resupply

Types: Sustained, Surge and Peak

# ***Sustained Rate***

- Level of effort a committed force can expect for an extended period of time.
- Up to 130 rockets per launcher per day.
- Requires 2 HEMTTs (w/trailer) to rearm a launcher.

# ***Surge Rate***

- Level of effort a committed force can expect when facing a main attack
- 130-175 rockets per launcher per day.
- Requires 4 HEMTTs (w/trailer) to rearm a launcher.



# ***Peak Rate***

- Level of effort a committed force can expect during an intense period of time.
- Most likely occurs when Reinforcing Arty.
- 175-263 rockets per launcher per day.
- Requires 6 HEMTTs (w/trailer) to rearm a launcher.

# ***Ammunition Storage Facilities***

- Corps Storage Area (CSA)
- Ammunition Supply Point (ASP)
- Ammunition Transfer Point (ATP)
- Ammunition Holding Area (AHA)
- Reload Point (RL)

# ***Corps Storage Area (CSA)***

- 170 - 190KM Behind the FLOT
- TSA (Theatre Storage Area) resupplies the CSA ammunition
- One CSA per Division to Support ASP and ATP Operations
- Operated by Modular Ammunition CO.
- ATACMS (M39)

# ***Ammunition Supply Point (ASP)***

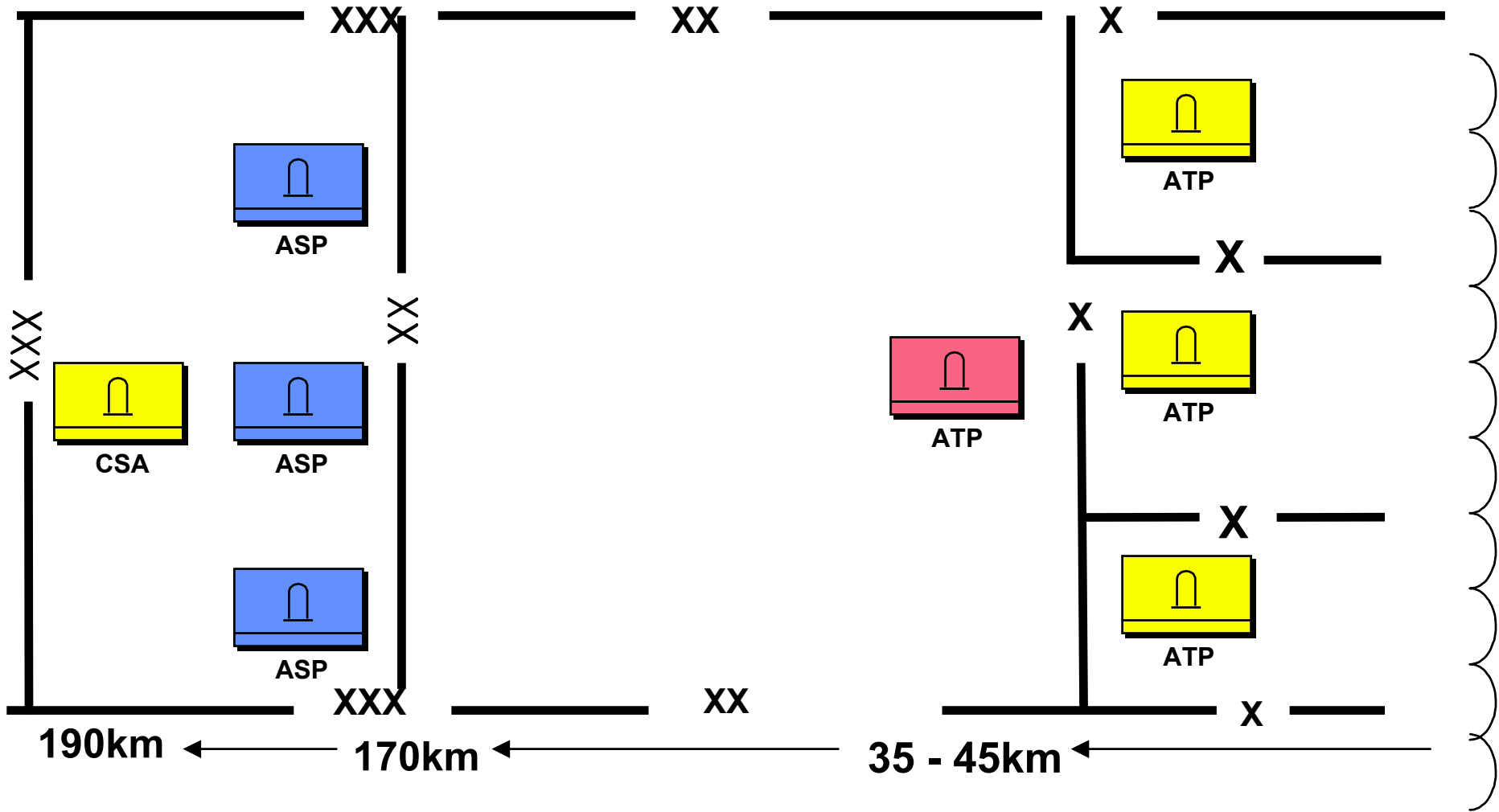
- 170\* KM Behind the FLOT
- Alternate sources of ammunition (M 26) for units in the division area.
- Operated by CSG Modular Ammunition CO.
- Units draw ATACMS (M 39) from ASP.

\*Distance may be less. Dependant upon size of Division area.

# ***Ammunition Transfer Point (ATP)***

- 30 - 45 KM behind the FLOT
- Up to four per division
  - One per Maneuver Brigade
  - One per Division support area
- Operated by CSG Modular Ammunition CO.
- High volume ammunition (M26)

# ***Doctrinal Distances***



# ***Ammunition Holding Area (AHA)***

- Battalion/Battery
  - Platoon normally only to cache ammo for initial phase.
- Storage point NOT an issue point.

# ***Reload Point (RL)***

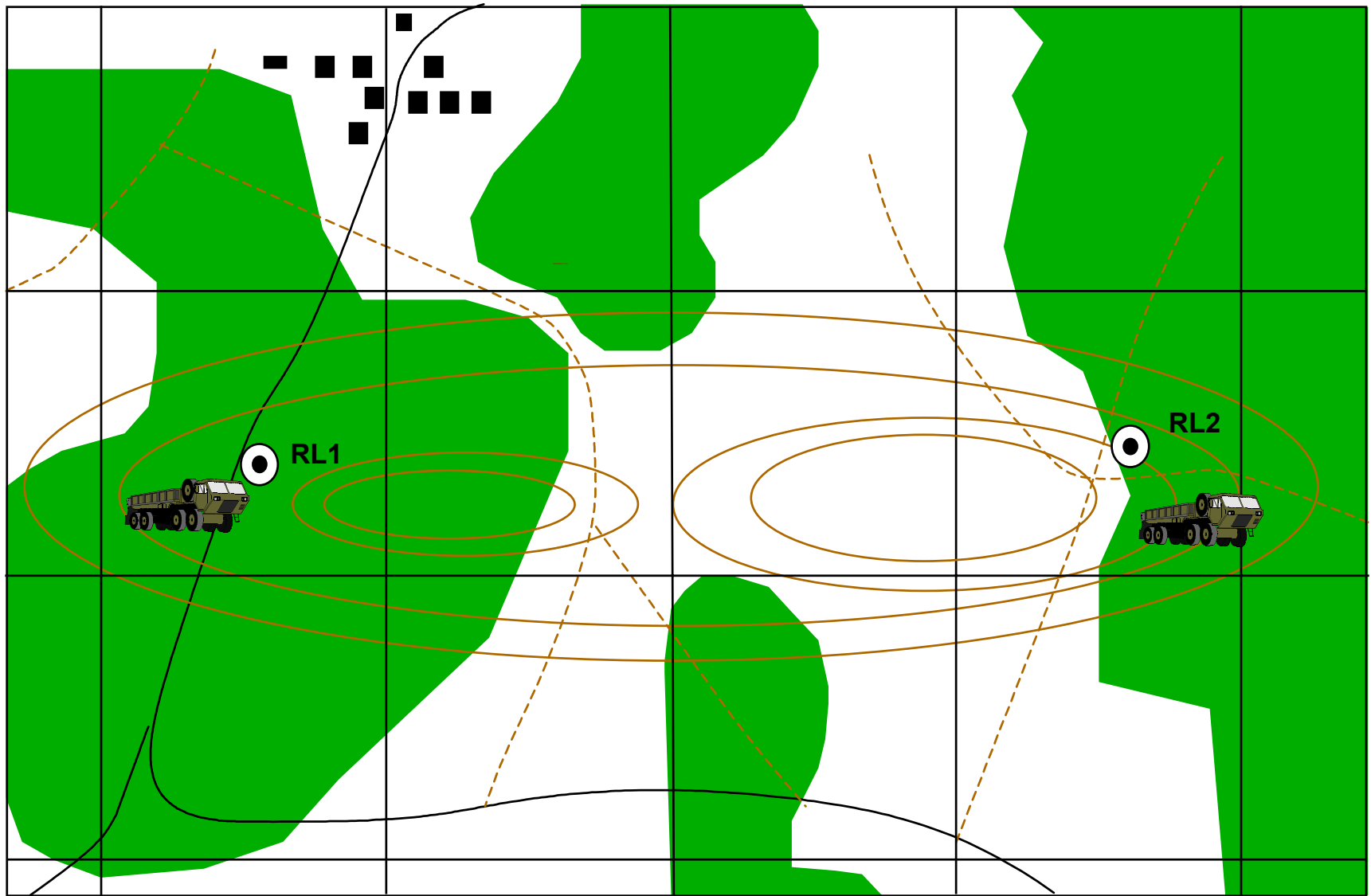
- Two per platoon OPAREA.
- Issue point for launchers.



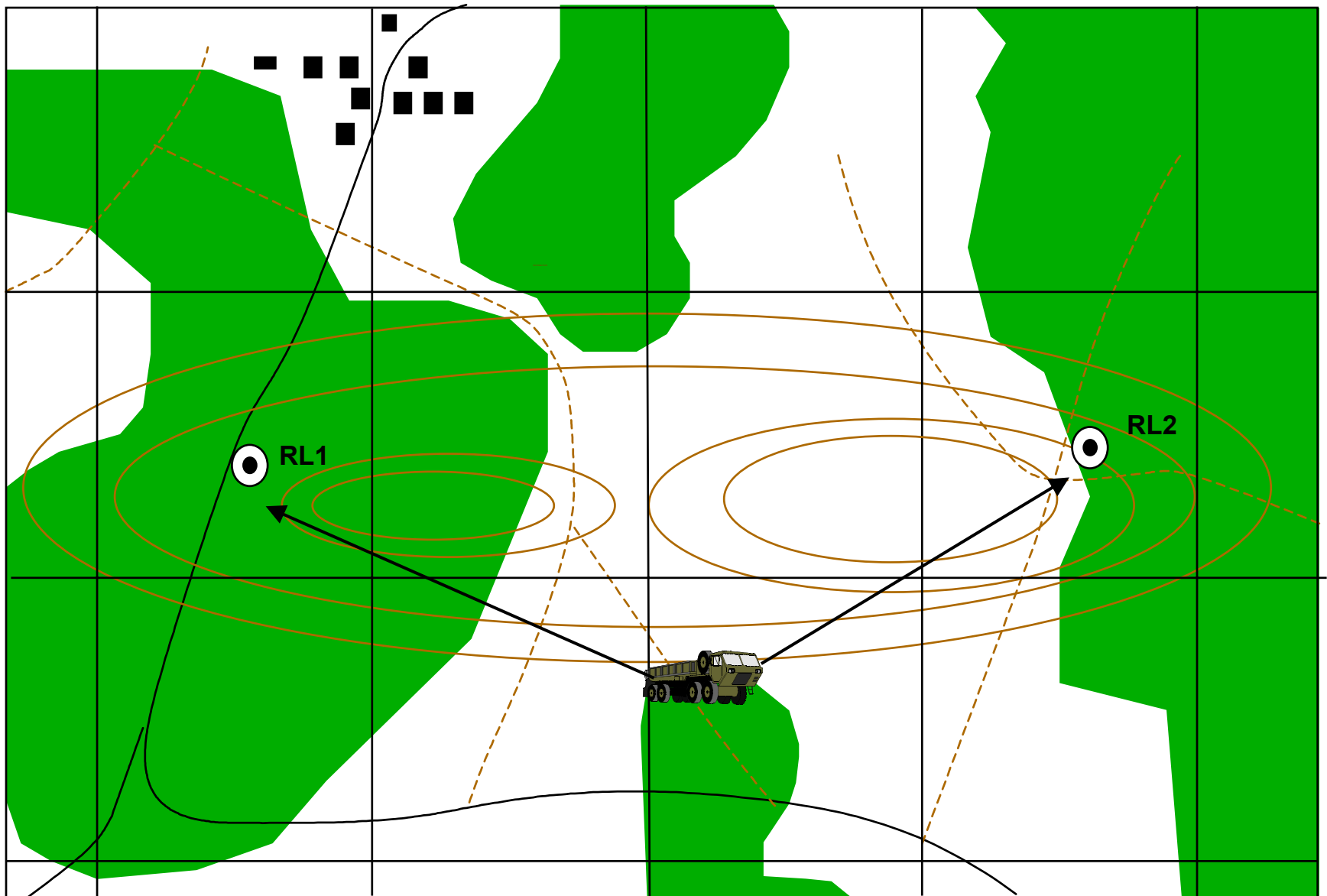
# ***Platoon Ammo Re-supply Techniques***

Option 1	(Occupied)
Option 2	(Observed)
Option 3	(Unoccupied)

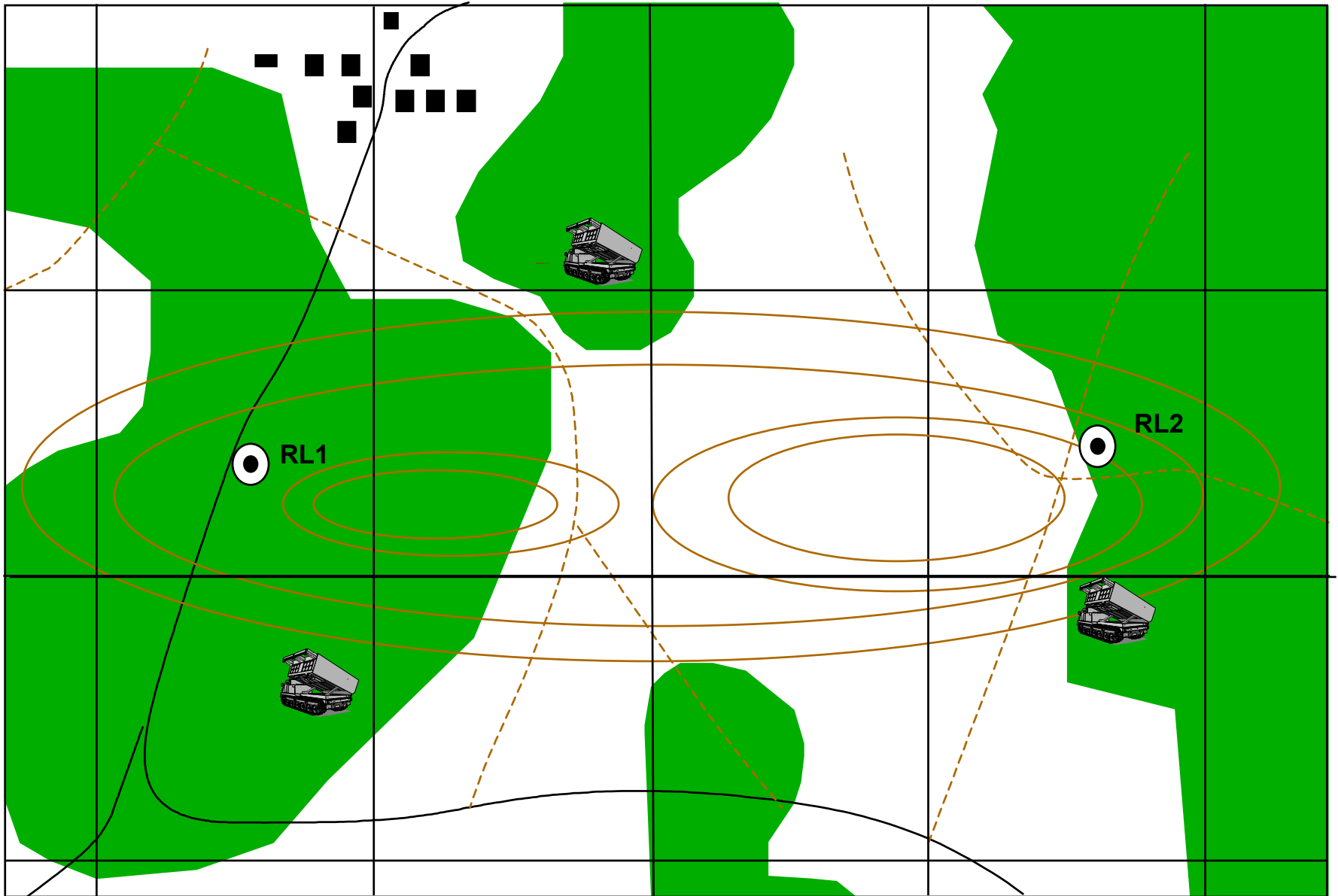
# ***Occupied Reload Point***



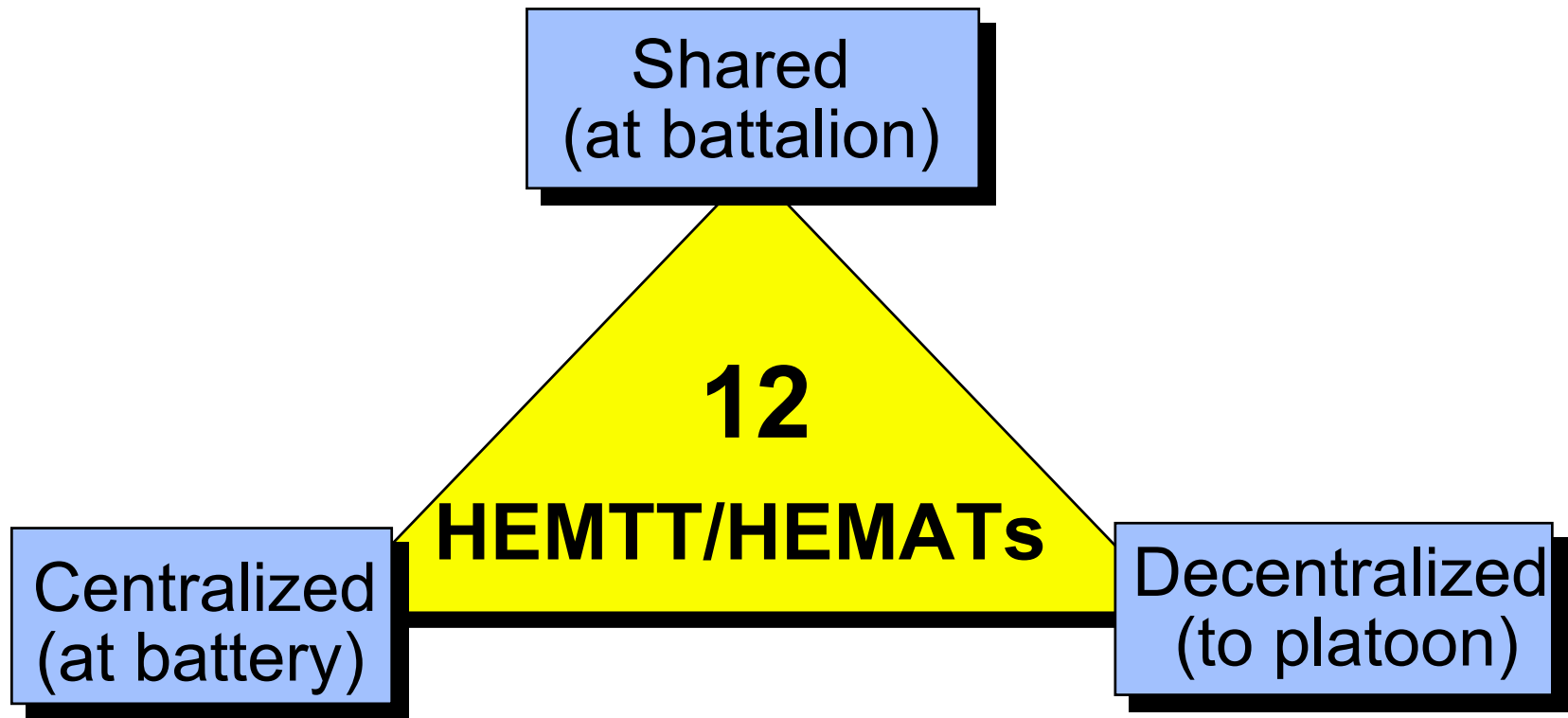
# ***Observed Reload Point***



# ***Unoccupied Reload point***



# ***Ammo Re-supply Options***



# ***Decentralized Control***

Places some HEMTTs under the control of the firing platoons

Advantage:

Quick resupply rate

Disadvantage:

May lose command and control

# ***Centralized Control***

Battery HQ controls HEMTTs and manages ammunition resupply

Advantage:

Excellent command and control

Disadvantage:

Slower resupply rate

# ***Shared Control***

Battalion consolidates control of some HEMTTs  
Creates a battalion ammunition platoon

Advantage:

Superior command and control

Disadvantage:

Slowest resupply rate



# ***Considerations for Re-supply Options***

- Tactical Fire Direction
- Distances to and from units/ATPs
- Expected Rates of Fire
- Number of trucks & trailers available
- Soldier's land navigation skills
- Type of ammunition
- Maintenance of equipment

# *Manage Unit Maintenance Operations*

# ***Battalion Maintenance Support***

- Battalion Maintenance
- Headquarters Battery Maintenance

# ***Battalion Maintenance Support***

- Maintaining forward
  - UMCP (Unit Maintenance Collection Point)
  - Decision to evacuate based on time required to repair.
  - Maintenance time guidelines (P 6-11).

# ***Firing Battery Maintenance Operations***

- Designed to perform its own maintenance
- Augmented with Intermediate DS Maint

# ***Maintenance Concept***

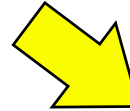
A Function of:

- Type of Maintenance
  - (FCS & NON-FCS)
- Level of Maintenance
  - Organizational
  - Intermediate Direct Support

# ***Non-FCS Maintenance***

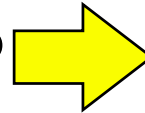
**VEHICULAR**

**Maintenance  
Section**



**COMMUNICATIONS**

**Commo  
Section**



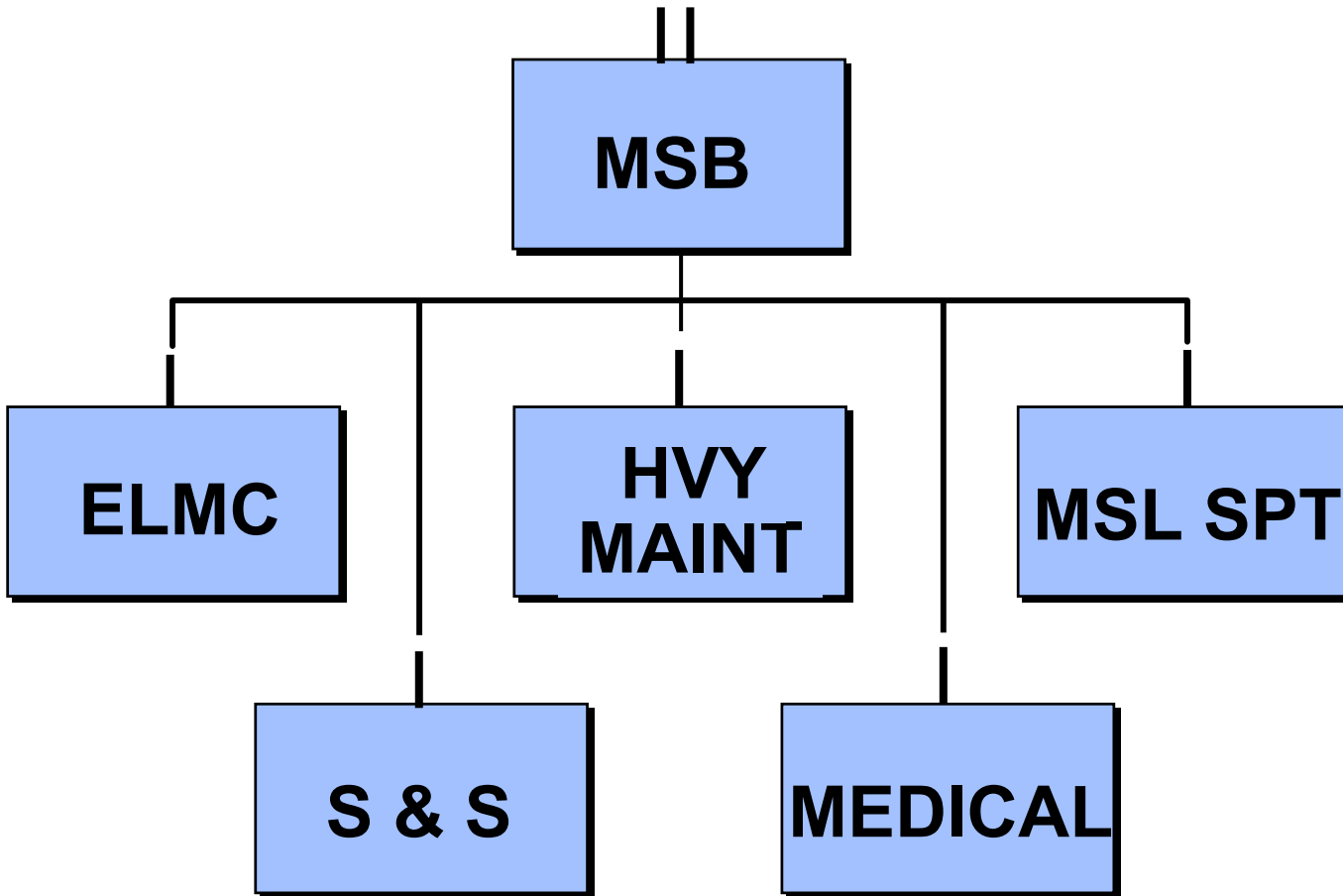
**Ex-Direct Support**

**FIRE DIRECTION  
SYSTEM**

**Operator  
PMCS**



# ***Main Support BN (MSB)***





# ***Electronic Maintenance Company (ELMC)***

- Commo/COMSEC Equipment
- Special Repair (FDS/LCU)

# ***Heavy Maintenance Company***

- Automotive Repairs (MST)
- Generator Repairs

# ***Missile Support Teams***

- Missile Support Unit (FCS specific)
  - Maintenance Support Teams (27M MST)
  - Battery level
  - Platoon Level

# ***FCS Maintenance***

- Organization
- Intermediate
  - Direct Support

# ***FCS Maintenance Organizational***

- Performed by Launcher Crew
- Built in Test Equipment (BITE)
- PMCS
- Remove/Replace LRUs
- Services

# ***FCS Maintenance***

## ***Intermediate DS***

- MOS 27M Soldiers attached from the Missile Support Unit of the Division MSB or the FCSB.
  - Detailed Troubleshooting
  - Repair of Cables/Connectors
  - Remove/Replace LRUs

# ***FDS Maintenance***

- Organizational
  - PMCS only
- Intermediate Direct Support  
ELMC

*Manage Refueling  
Operations and Other  
Areas of Support*



# ***Fueling Options***

- Hot refuel:
  - All vehicles refuel in route to OPAREA (along route of march).
  - Preferred method.
- OPAREA refuel:
  - Fuel truck tops off vehicles in OPAREA.
    - Fuel truck moves to each individual position.
    - Vehicles move to centrally located truck.

# ***Sustaining Soldiers and Systems***

- Postal Services
- Personal Demand Items (Class VI)
- Command Information
- Morale, Welfare and Recreation
- Chaplain Activities

# ***Summary***

- Logistics Operations
- Logistics Supply Areas
- MLRS Battalion Logistics
- MLRS Battery Logistics
- Arming
- Fixing
- Fueling
- Sustaining Soldiers and Their Systems

# Gunnery Department MLRS Division

*“Standards Start Here”*

